

SUBJECTS FOR THE COMPETITION EXAM
FOR THE POSITION OF ASSOCIATE PROFESSOR

position 19 from The State of Functions of

The Department of Surgical Discipline from the academic year 2024-2025

I. The written test

1. Anatomy and physiology of the visual analyzer.
2. Color sense, physiopathology and examination methods.
3. Ocular refraction and ametropia.
4. Physiology and pathophysiology of binocular vision; simultaneous strabismus and heterophoria.
5. Oculomotor paralysis; nystagmus.
6. Pathology of the eyelids.
7. Pathology of the lacrimal apparatus.
8. Pathology of the conjunctiva.
9. Pathology of the orbit.
10. Cornea and sclera pathology.
11. Uvea pathology.
12. Lens pathology.
13. Vascular diseases of the posterior pole.
14. Retinal detachment and vitreous pathology.
15. Chorioretinal and macular degenerations.
16. Glaucomatous disease.
17. Neuroophthalmology.
18. Traumatology of the globe and ocular appendages.
19. Neoformations of the globe and ocular appendages.
20. Expertise in ophthalmology.
21. Congenital anomalies of the eye and appendages.
22. Ophthalmological manifestations in general diseases.

II. Clinical trial

The clinical cases will be chosen from the topic of the specialized written test.

III. Practical test

A.

1. Determination of refraction.
2. Correction with aerial and contact lenses in ametropia.
3. Visual field examination.
4. Biomicroscopic examination of the anterior pole.

5. Examination of intraocular pressure (Goldmann contact aplanotometry; method by Schotz indentation).
6. Diaphanoscopy.
7. Examination of binocular vision (determination of the kappa angle at the synoptophore; Worth test).
8. Examination of an oculomotor paralysis (red glass test).
9. Examination of the fundus (direct, indirect ophthalmoscopy, fundus biomicroscopy).
10. Gonioscopy.
11. Exploring the chromatic sense.
12. Interpretation of a radiograph to locate intraocular foreign bodies.
13. Interpretation of ERG, PEV.
14. Interpretation of an oculo-orbital ultrasound.
15. Biometrics.
16. Interpretation of an angiofluorography.
17. Interpretation of an oculo-orbital computed tomography.

B.

1. Correction of ectropion.
2. Entropion correction
3. Surgery of eyelid ptosis.
4. Lacrimal canal surgery.
5. Strabismus surgery.
6. Pterygium surgery.
7. Suture of a sclero-corneal wound.
8. Antiglaucomatous trabeculectomy.
9. Laser antiglaucomatous interventions.
10. Cycloanemizing interventions.
11. Intraocular foreign body extraction.
12. Lens surgery.
13. YAG-Nd laser capsulotomy.
14. Evisceration of the eyeball.
15. Enucleation of the eyeball.
16. Exenteration of the orbit.
17. Surgery of refractive errors.
18. Free and pedicled skin grafts.
19. Perforating and lamellar keratoplasty.
20. Vitreoretinal surgery.
21. Retinal photocoagulation.

REFERENCES

1. Basic and Clinical Science Course, vol.I+II, Am.Acad. of Ophtalmol., San Francisco 1999;
2. Cernea P. - Tratat de Oftalmologie, Ed. Med., Buc. 1997;
3. Duanne, Clinical Ophtalmology, CD-ROM Edition,2000;
4. Kansky J. - Clinical ophtalmology, Butterworth and co., London, 4th ed., 1998;
5. Olteanu M. - Tratat de Oftalmologie, Ed. Med., Buc. 1999;
6. Olteanu M., Carstocea B. - Oftalmologie - urgențe, Ed. Did. și Ped., Buc. 1985;
7. Yanoff M., Duker J. - Ophtalmology, Mosby, London 1999.

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